

# **Law and Artificial Intelligence**

## **Abstract**

At present, the legal order of the Czech Republic is not directly concerned with artificial intelligence, even though the first technologies and systems based on it are already appearing. However, a number of soft law materials (strategies, plans and declarations) issued both by the Czech authorities and also within the European Union (especially by the European Commission) deal with artificial intelligence. Both Czech and EU materials are outlined in the thesis and are considered in further research.

The aim of this thesis is to evaluate the actual needs to deal with artificial intelligence from a legal point of view and whether the current legislation is sufficient and applicable to artificial intelligence systems.

After the introductory part, the thesis gives an overview of the history of artificial intelligence and its development, tries to define the term of artificial intelligence and related terms (algorithm, machine learning, deep learning) and then examines whether artificial intelligence can be included under some legal concepts (categories) already existing (artificial intelligence as a computer program, thing, product, computer virus and more).

Furthermore, the thesis discusses the development and research of artificial intelligence, including ethical and legal rules, which shall be taken into account in these activities. Risks in the use of artificial intelligence systems are also mentioned (lack of transparency, possible discrimination of end users, committing illegal activities).

Regarding the current legislation, the thesis clarifies the possibilities of protection of artificial intelligence in terms of copyright, intellectual property rights and trade secrets, including know-how. Authorship and co-authorship in relation to artificial intelligence as well as possible authorship of artificial intelligence itself are examined.

In conclusion, the thesis points out the advantages and disadvantages of recognizing the personality of artificial intelligence (whether as a natural, legal or electronic person) and defines the impact on the legal liability of artificial intelligence in various models.

**Key words: artificial intelligence, civil law, copyright law**